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1 GGCACCAGGAGATCTAGGTTCAAATTAATGTTGCCCCCTAGTGCTAAAGGACAGAGACCCCTCAGACTGATGAAATGGCTCAGAATTACTTAGACAA  
97 AGCGGATATTTCCTACTCTCTTCCCCTTTTCTGTGTTTTTGTAGTGAAGAGACCTGAAAGAAAAAGTAGGGAGAACATAATGAGAACAAATACC  
193 GTAATCTCTTCATTTCGTAGTTCAAGTCTGGACTTGGGACTTAGGAGGGGCAATGGAGCCGCTTAGTGCCTACATCTGACTTGGACTGAAATATA  
289 GCTGAGAGACAAGATTGTCTCATATCCGGGGAAATCATACCTATGACTAGGACGGGAAGAGGAAGCACTGCCTTTACTTCACTGGGAATCTCGGC  
385 CTCAGCCTGCAAGCCAAAGTGTTCACAGTGAGAAAAGCAAGAGAATAAGCTAATACTCCTGTCTCTGAACAAGGCAGCGGCTCCTTGCTAAAGCTACT  
481 CCTTGATCGATCCTTTGCACCGGATTGTTCAAAGTGGACCCAGGGGAGAAAGTCGGAGCAAAGAACTTACCACCAAGCAGTCCAAGAGGCCAGAA  
577 GCAAACTGGAGGTGAGACCCAAAGAAAGCTGGAACCATGCTGACTTTGTACACTGTGAGGACACAGAGTCTGTTCTGGAAAGCCAGTGTCAAC  
L E V R P K E S W N H A D F V H C E D T E S V P G K P S V N 30  
673 GCAGATCAGGAAGTCGGAGCTCCCAAATCTGCCGTGTATGTGGGACAAAGGCCACTGGCTATCACTTCAATGTGATGACATGTGAAGGATGCAAG  
A D E E V G G P Q I C R V C G D K A T G Y H F N V M T C Z G C K 62  
769 GGCCTTTTCAGGAGGGCCAACAAACGCAACGCCCGGCTGAGGTGCCCTTCCGGAAGGGCGCTGCGAGATCACCCGGAAGACCCGGGACAGTGC  
G F F R R A M K R N A R L R C F F R K G A C E I T R K T R R Q C 94  
865 CAGGCTCCCGCCTGCGCAAGTGCCTGGAGAGCGGCATGAAGAAGGAGATGATGTCCGACGAGGCCGCTGGAGGAGAGCGGGCTTGATCAAG  
Q A C R L R K C L E S G M K K E H I H S D E A V E E R R A L I K 126  
961 CGGAAGAAAAGTCAACCGACAGGGACTCAGCCACTGGGAGTGCAGGGGTCAGACAGGACAGCGGATGATGATCAGGGAGCTGATGGACGCTCAG  
R K K S E R T G T Q P L G V Q G L T E E Q R M H I R E L M D A Q 158  
1057 ATGAAAACCTTTGACACTACCTTCTCCCATTTCAAGAAATTCGGCTGCGAGGGGTGCTTAGCACTGGCTCGGAGTGGCAGAGCCTCTGCAGGCC  
M K T F D T T F S H F K N F R L P G V L S S G C E L P E P L Q A 190  
1153 CCATCGAGGGAAGAAGCTGCCAAGTGGAGCCAGGTCCGGAAGATCTGTCTCTTTGAAGGTCTCTCTGCAAGCTCGCGGGGAGGATGGCACTGT  
P S R E E A A K W S Q V R K D L C S L K V S L Q A A G G G W Q C 222  
1249 CTGGAAGTACAAACNCCAGCCGACAGTGGCGGAAGAGATCTTCTCCCTGCTGCCCCACATGGCTGACATGTCAACCTACATGTTCAAAGGCATC  
L E L Q T P S R Q W R K E I F S L L P H M A D M S T Y M F K G I 254  
1345 ATCAGCTTTGCCAAAGTCATCTCTACTTCAGGGACTTGGCCATCGAGGACCAGATCTCCTGCTGAAGGGGGCGCTTTCAGAGCTGTGTCAACTG  
I S P A K V I S Y F R D L P I E D Q I S L L K G A A F E L C Q L 286  
1441 AGATTCAACACAGTGTTCACCGCGGAGACTGGAACCTGGGAGTGTGGCCGGCTGTCTACTGCTTGGGAAGACACTGCAGGTGGCTTCCAGCACTT  
R F N T V F N A E T G T W E C G R L S Y C L E D T A G G G F Q Q L 318  
1537 CTACTGGAGCCCATGCTGAAATCCACTACATGCTGAAGAAGCTGCAGCTGCATGAGGAGGAGTATGTGCTGATGCAGGCCATCTCCCTCTTCTCC  
L L E P H L K F H Y M L K K L Q L H E E E Y V L M Q A I S L F S 350  
1633 CCAGACCGCCAGGTCTGCTGCAGCACCGCGTGGTGGACCAGCTGCAGGAGCAATTGCCATTACTCTGAAGTCTACATTGAATGCAATCGGCC  
P D R P G V L Q H R V V D Q L Q E Q P A I T L K S Y I E C N R F 382  
1729 CAGCCTGCTCATAGGTTCTGTTCCTGAAGATCATGGCTATGCTCACCGAGCTCCGAGCATCAATGCTCAGCACACCCAGCGGCTGCTGGGCATC  
Q P A H R F L F L K I H A M L T E L R S I N A Q H T Q R L L R I 414  
1825 CAGGACATACACCCCTTTGCTACGCCCTCATGCAGGAGTGTTCGGCATCACAGGTAGCTGAGCGGCTGCCTTGGGTGACACCTTCGAGAGGCAG  
Q D I H P F A T P L M Q E L F G I T G S 434  
1921 CCAGACCCAGAGCCCTCTGAGCCGGCACTCCCGGGCAAGACAGATGGACACTGCCAAGAGCCGACAAATGCCCTGCTGGCTGTCTCCCTAGGGAA  
2017 TTCCTGCTATGACAGCTGGCTAGCATTCCTCAGGAAGGACATGGGGTGCCCC 2068

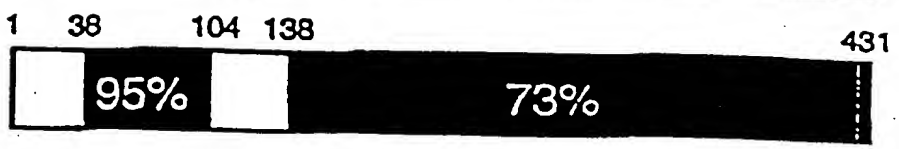
FIG. 1A

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hSXR



mPXR.1



xBXR



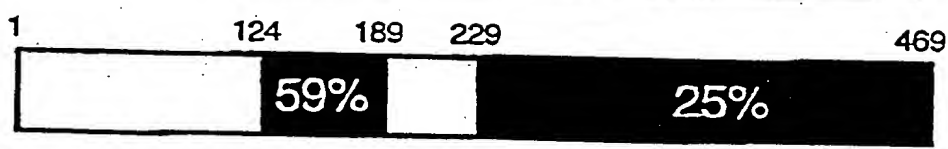
hVDR



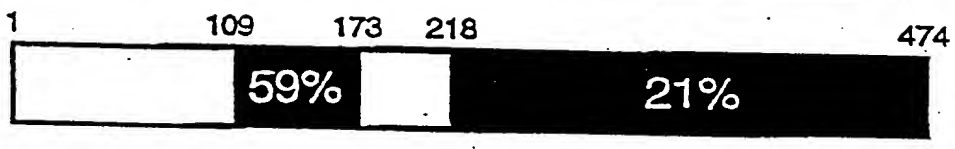
hCAR $\alpha$



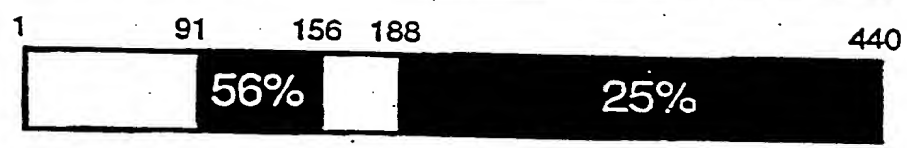
rFXR



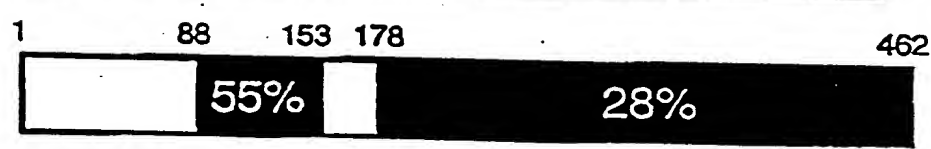
mPPAR $\alpha$



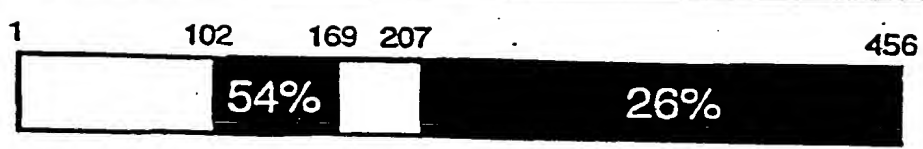
hLXR $\alpha$



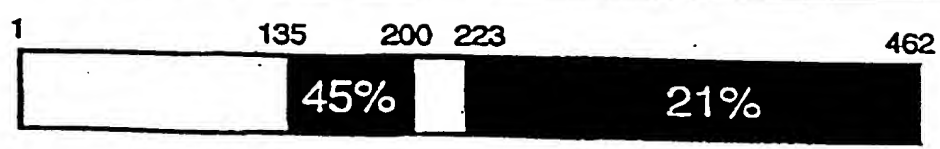
hRAR $\alpha$ 1



hTR $\beta$



hRXR $\alpha$



hGR $\alpha$

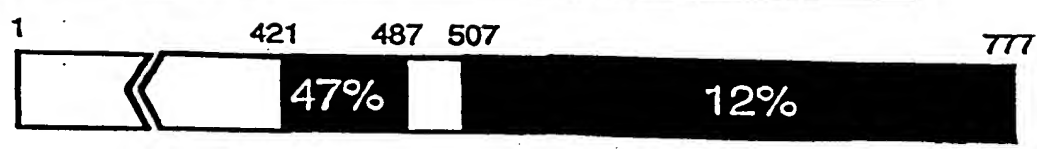


FIG. 1B

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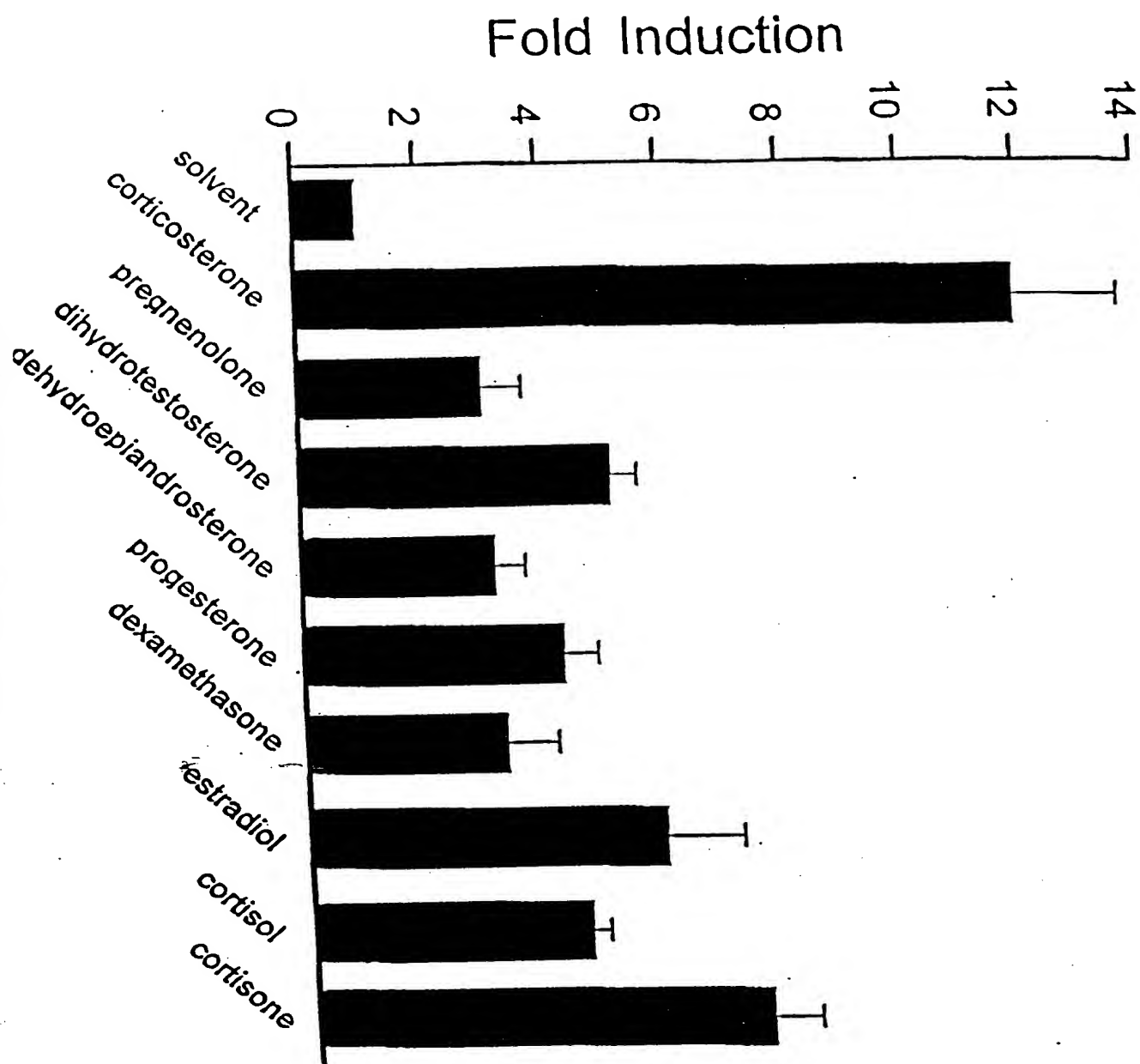


FIG. 2

# Fold Induction

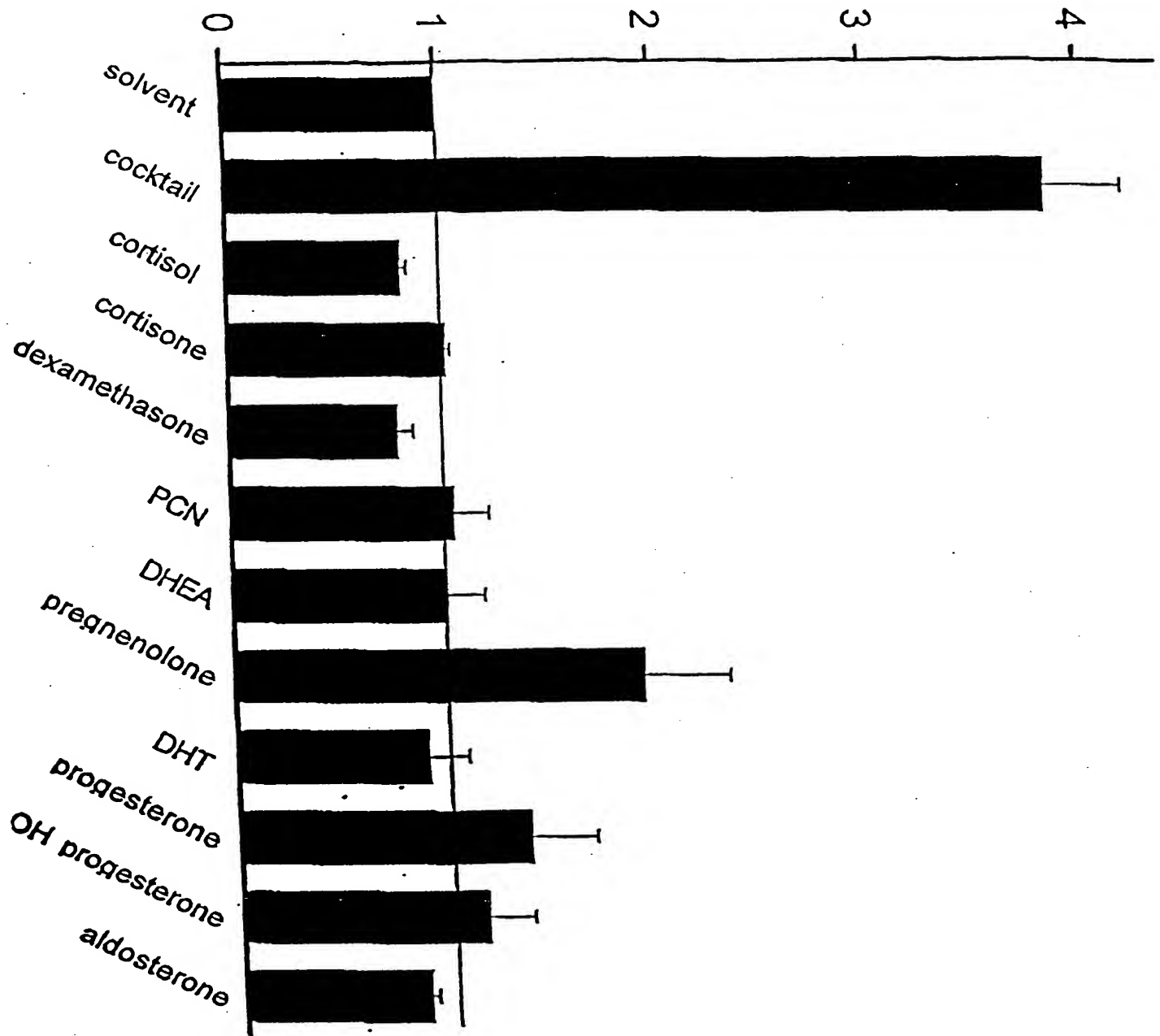


FIG. 3

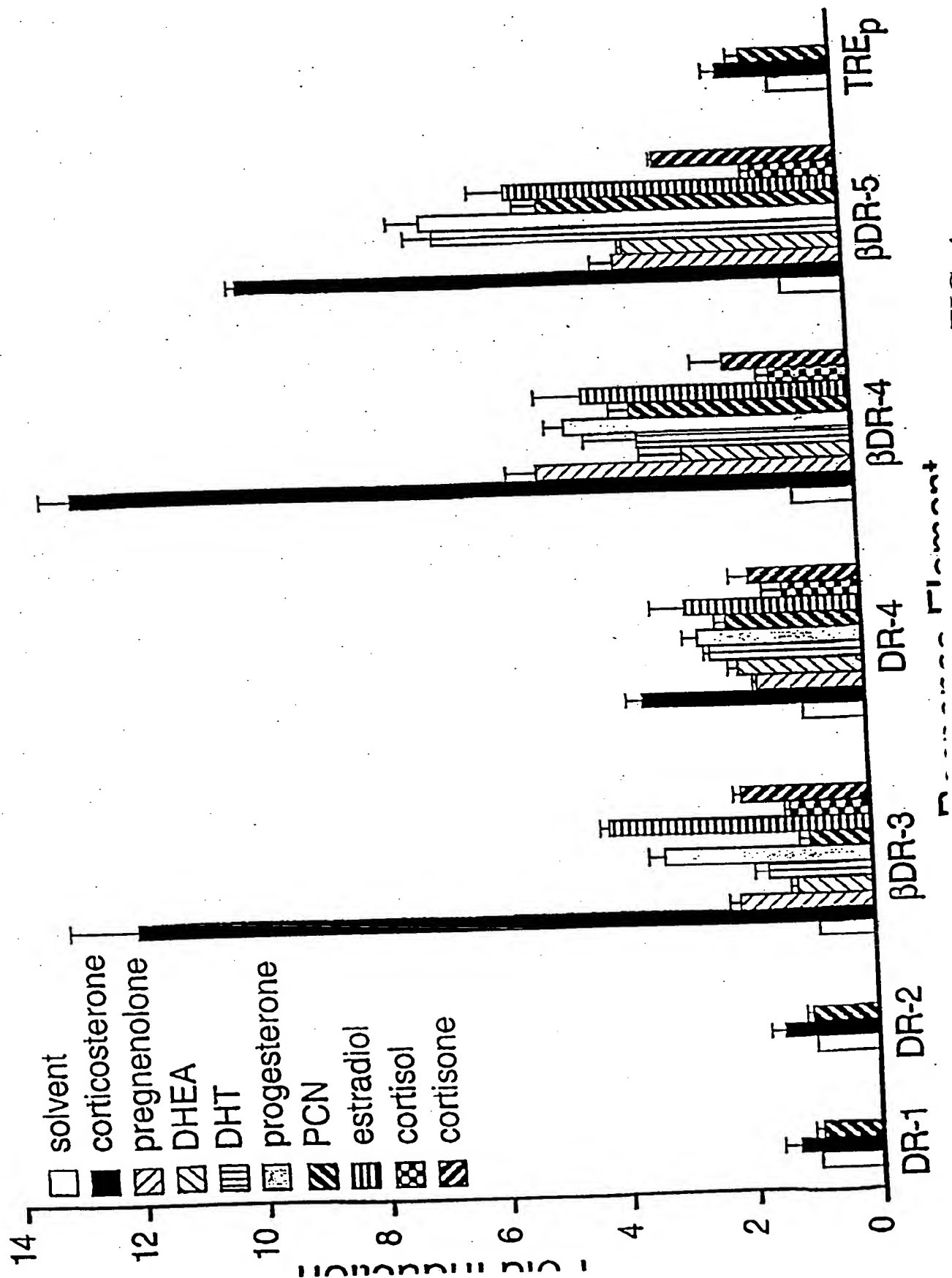


FIG. 4

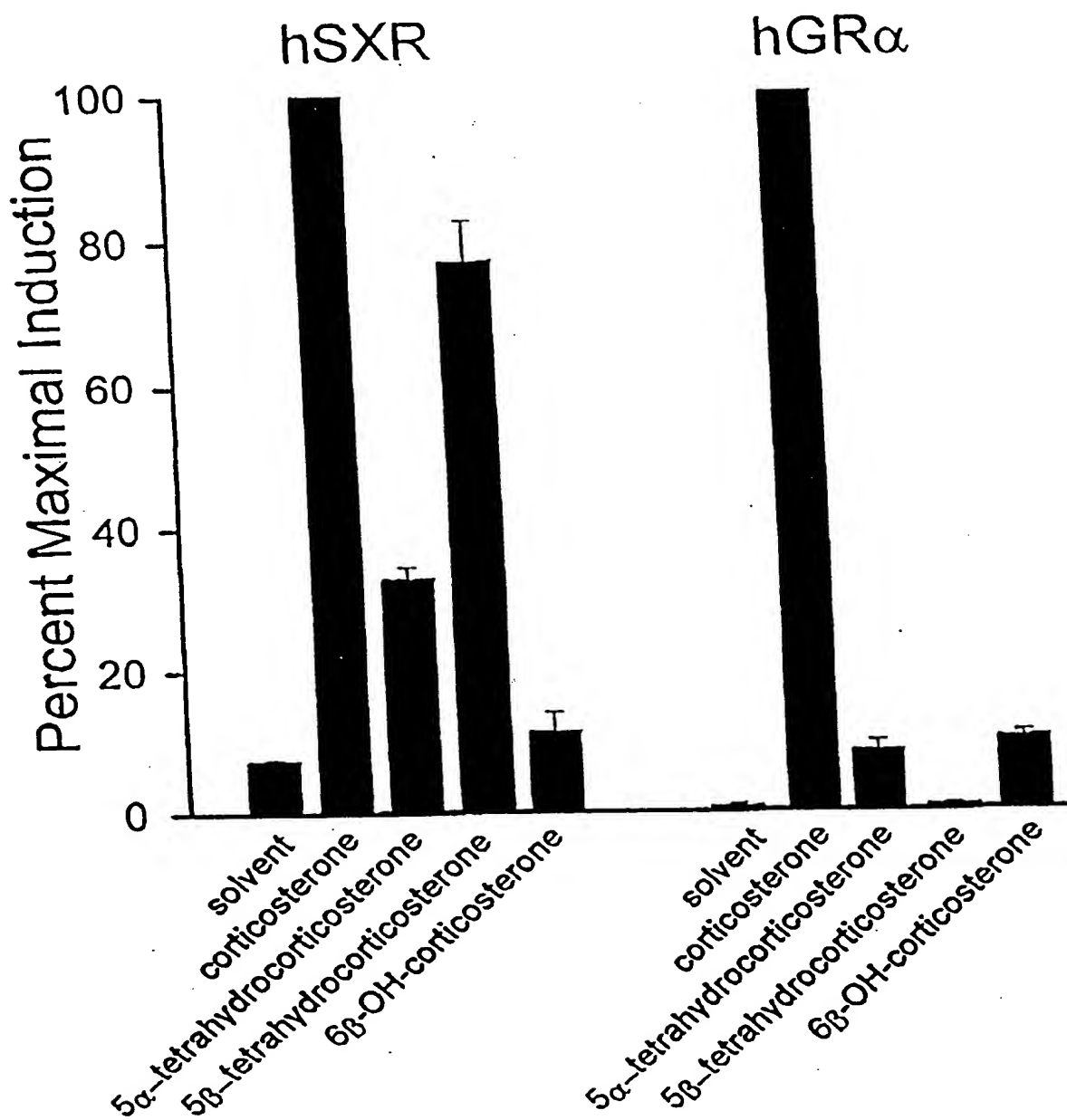


FIG. 5

**DR-3**

rCYP3A1

rCYP3A2

rUGT1A6

tagac AGTTCA tga AGTTCA tctac

taagc AGTTCA taa AGTTCA tctac

actgt AGTTCA taa AGTTCA catgg

**DR-4**

rbCYP2C1

rP450R

caatc AGTTCA acag GGTTCa ccaat

cac AGGTGA gctg AGGCCA gcagc AGGTCC aaa

**DR-5**

rCYP2A1

rCYP2A2

rCYP2C6

hCYP2E1

gtgca GGTTCa actgg AGGTCA acatg

gtgct GGTTCa actgg AGGTCA gtatg

agtct AGTTCA gtggg GGTTCa gtctt

gagat GGTTCa aggaa GGGTCA ttaac

**FIG. 6A**

CYP3A4

CYP3A5

CYP3A7

tagaata TGAACt caaagg AGGTCA gtgagtgg

tagaata TGAACt caaagg AGGTAA gcaaaggg

tagaata TTAACt caatgg AGGC.A gtgagtgg

**FIG. 6B**

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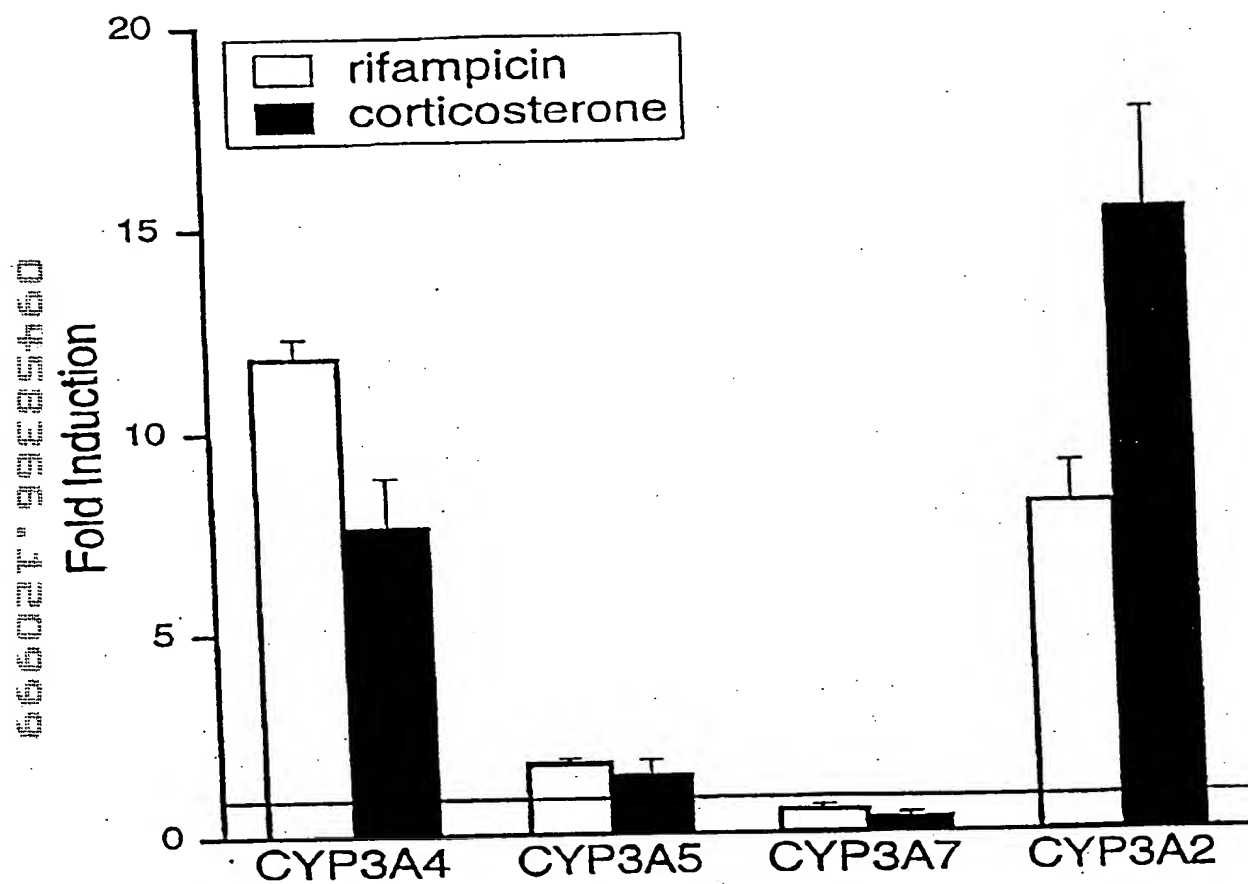
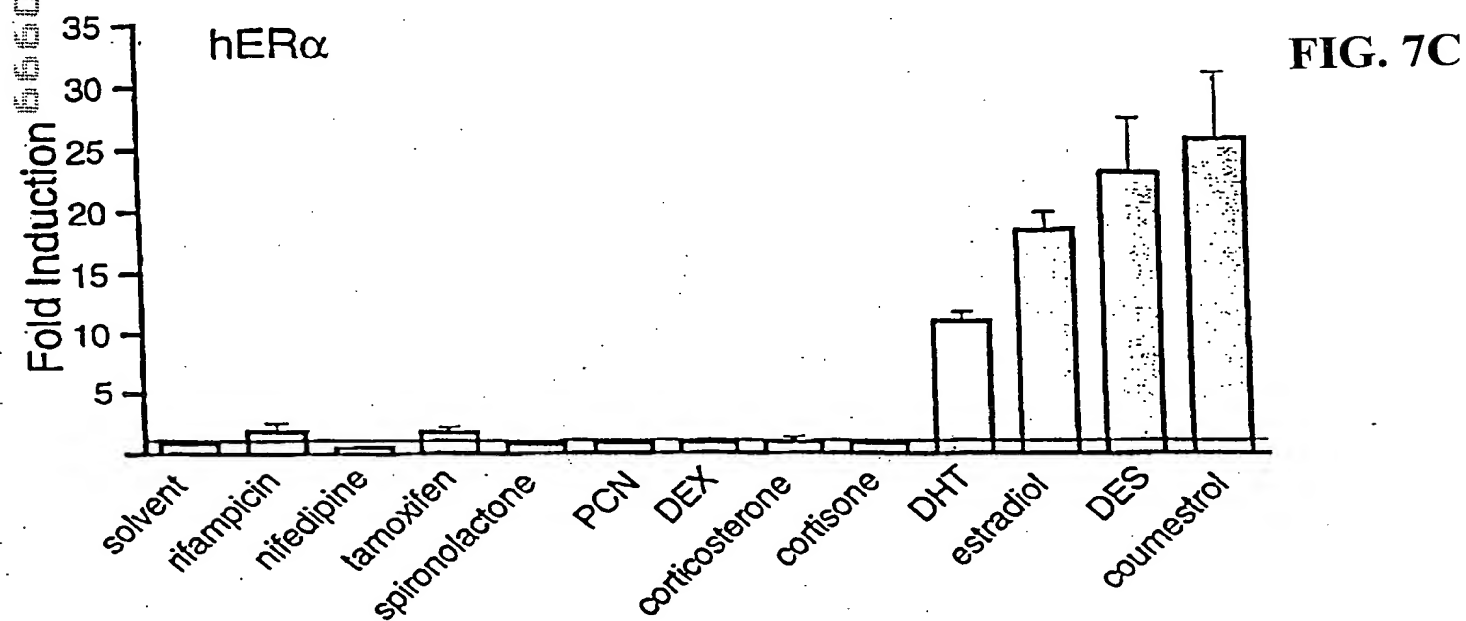
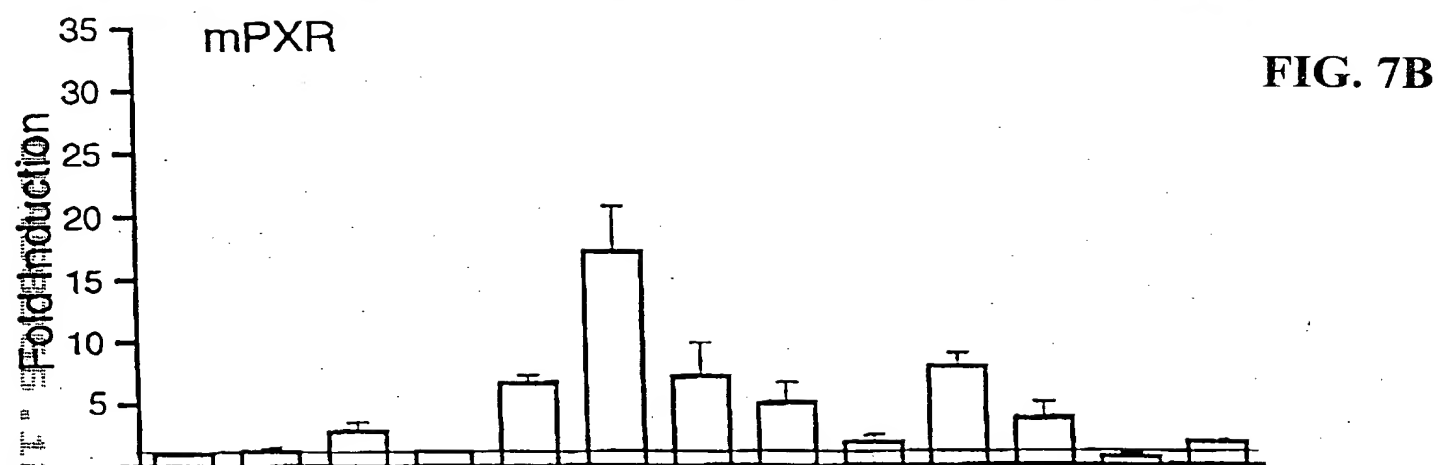
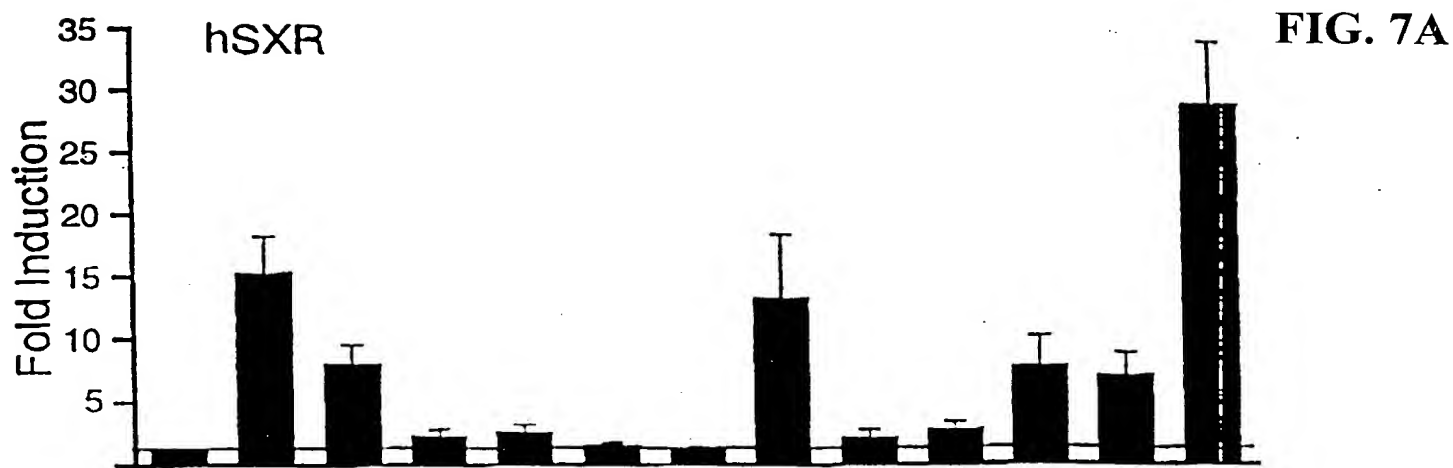


FIG. 6C



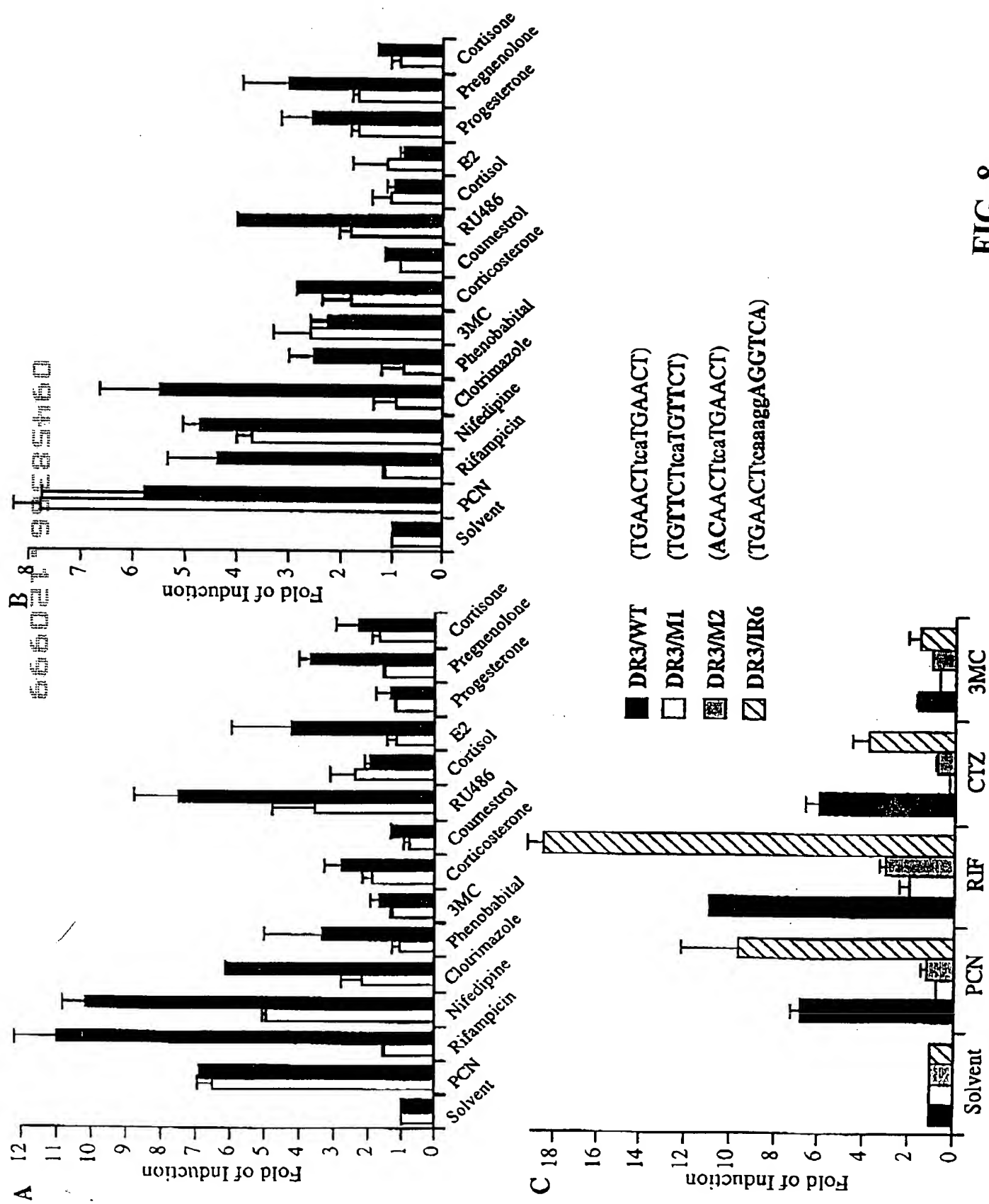


FIG. 8

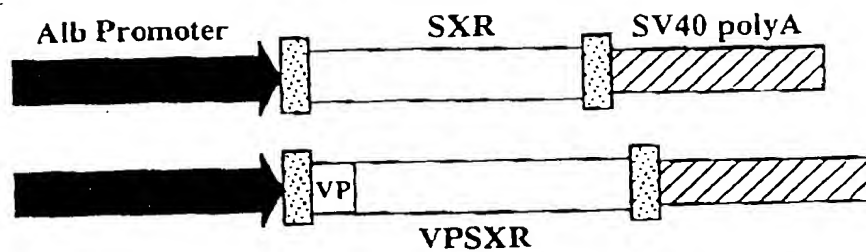


FIG. 9

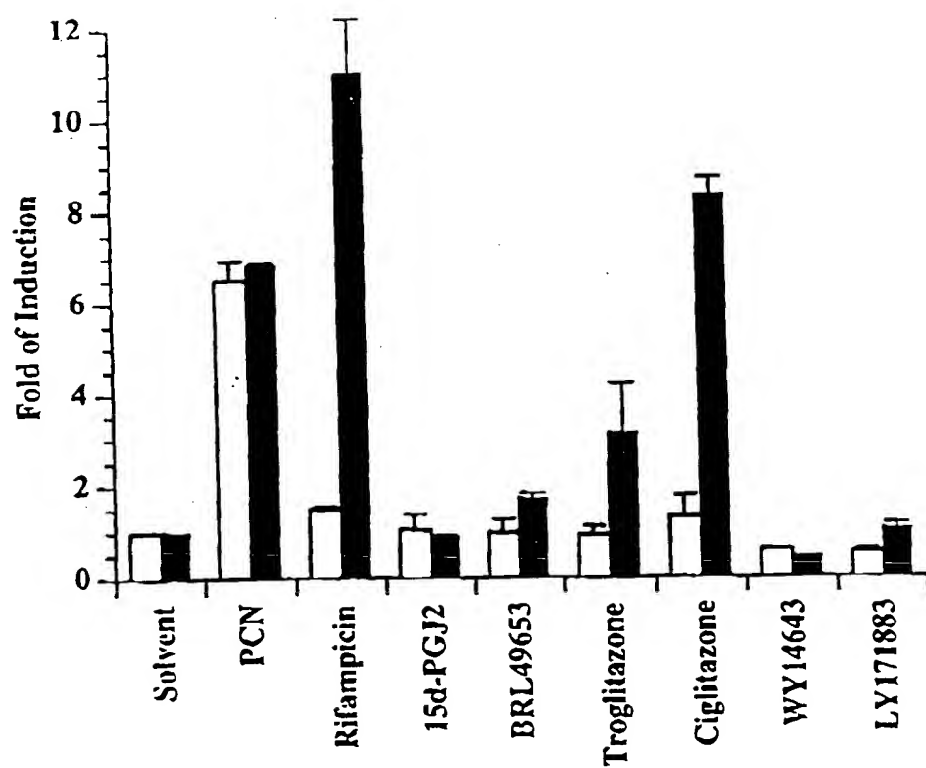
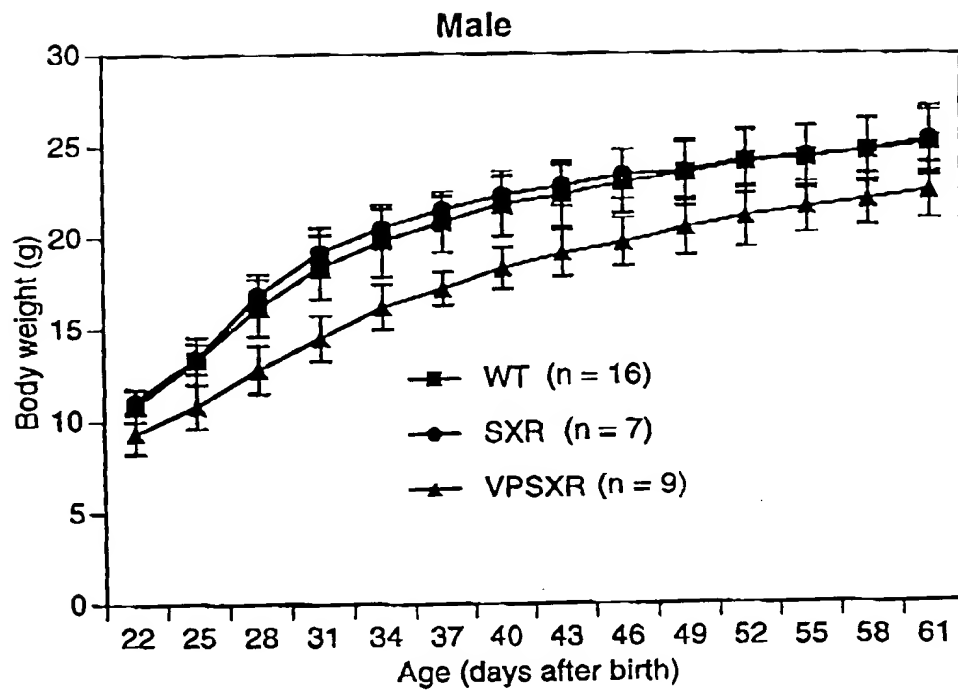
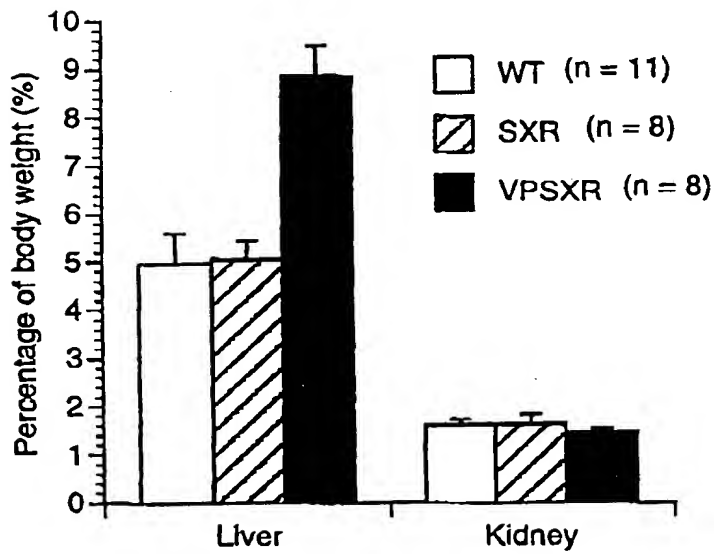


FIG. 10



**FIG. 11**



**FIG. 12**